

Topic: Animals

2-2: The student will demonstrate an understanding of the needs and characteristics of animals as they interact in their own distinct environments. (Life Science)

Key Concepts: air, water food shelter, energy, growth, protection, mammals, birds, amphibians, reptiles, fish, insects, and life cycles

Supporting Content Web Sites

Kid Territory at the San Diego Zoo

www.sandiegozoo.org/kids/index.html

Answers kids questions about animals. Includes information on careers with animals.

2.2-1; 2.2-2; 2.2-3

Interactive Honeybee Site

www.pbs.org/wnet/nature/alienempire/multimedia/hive.html

Kids learn about pollination, developing larvae, storing honey, and daily life in the hive.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Interactive Animals of the World

www.kidscom.com/games/animal/animal.html

Learn about animals and their habitats by playing games about mammals, insects and arachnids, reptiles and amphibians, birds and fish.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Magic School Bus Animals Tour

<http://place.scholastic.com/magicschoolbus/tour/tour.htm?animals>

Kids take “guided tours” and learn about animal characteristics and habitats in this interactive site.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Who Lives Here?

www.pbs.org/kratts/crazy/wlh

A Kratts Creatures interactive site where kids can learn about animal habitats and the animals that live there.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

National Geographic.com for Kids

www.nationalgeographic.com/kids/creature_feature/archive/

Get to know some of the most interesting and unusual members of the wild world- from cheetahs to crocodiles and whales to warthogs.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Iowa State University Insect Zoo

<http://zoocam.ent.iastate.edu/>

Zoom in on some live insects using the Iowa State streaming video internet camera.

2.2-1; 2.2-2

The Butterfly Website

<http://butterflywebsite.com/gallery/index.cfm>

A gorgeous and extensive caterpillar, butterfly, and moth photo gallery. Links to other butterfly photo galleries.

2.2-1; 2.2-2; 2.2-5

Monterey Bay Aquarium Live Web Cams

www.mbayaq.org/efc/cam_menu.asp

Offers a look at marine life at the aquarium and off the oceanfront decks of the Monterey Bay Aquarium in California. Includes sea birds, otters, sharks, penguins, and more.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Echo the Bat and Amelia the Pigeon Interactive Multimedia Adventures

<http://imagers.gsfc.nasa.gov/index.html>

This NASA based interactive website tells the stories of these two interesting animals. Provides students with the opportunity to compare bats and birds.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Suggested Literature

Jenkins, Steve and Robin Page. (2005). *I See a Kookaburra*. New York: Houghton Mifflin Company.

ISBN: 0-618-50764-7

Lexile Level: N/A

Identifies animal habitats in six different regions of the world and provides a brief description of eight animals that are found within the habitat.

2.2-3

Davies, Nicola. (2005). *Ice Bear: In the Steps of the Polar Bear*. Candlewick Press.

ISBN: 0-7636-2759-3

Lexile Level: AD950L

Life cycle of the Polar Bear in the Arctic region. Uses large narrative text and smaller informational text so the book can be enjoyed on a variety of levels.

2.2-1; 2.2-2; 2.2-3; 2.2-5

Cole, Henry. (2003). *On the Way to the Beach*. Greenwillow.

ISBN: 0-688-17515-5

Lexile Level: N/A

The reader makes observations of a forest, salt marsh, sand dunes, and on the beach. Fold-out pages list the ecosystem inhabitants. Picture keys at the back of the book allow for easy identification of the inhabitants.

2.2-1; 2.2-3; 2.2-4

Berger, Melvin. (2003). *Spinning Spiders*. New York: HarperCollins.

ISBN: 0-06-028696-2

Lexile Level: 680L

Describes several kinds of spiders and provides students with a critical comparator for insects.

2.2-1; 2.2-2; 2.2-4

Helligman, Deborah. (2002). *Honeybees*. National Geographic Society.

ISBN: 0-7922-6678-1

Lexile Level: 360L

Informative book about the life cycle, social organization, physical characteristics, and adaptations of honeybees. A fun activity simulating honeybee communication is included at the end.

2.2-1; 2.2-2; 2.2-4; 2.2-5

Rockwell, Anne. (2001). *Bugs Are Insects*.

HarperCollins Children's Books.

ISBN: 0-06-028568-0

Lexile Level: AD590L

Explores the physical characteristics of insects, their habitats, means for getting food, and makes distinctions between insects and other types of animals.

2.2-1; 2.2-2; 2.2-3; 2.2-5

Bonnors, Susan. (1998). *Why Does The Cat Do That?*. Henry Holt.

ISBN: 0-8050-4377-2

Lexile Level: N/A

Explores the scientific world of the common house cat. Provides an example of a mammal with which children will be familiar.

2.2-1; 2.2-2; 2.2-5

Porte, Barbara Ann. (1997). *Tale of a Tadpole*. Orchard.

ISBN: 0-531-30049-8

Lexile Level: 450L

A family's experience watching a tadpole go through its life cycle and becoming a frog.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Esbensen, Barbara Juster. (1996) . *Echoes for the Eye: Poems to Celebrate Patterns in Nature*. New York: HarperCollins.

ISBN: 0-06-024398-8

Lexile Level: N/A

This picture book introduces observation and integrates several subject areas.

2.2-1; 2.2-2

Helligman, Deborah. (1996). *From Caterpillar to Butterfly*. New York: HarperCollins.

ISBN: 0-06-024264-7

Lexile Level: 490L

Painted Lady Butterfly growth stages as seen through the eyes of children in a primary classroom. Includes a guide to common butterflies and places to see butterflies.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

McMillan, Bruce. (1995). *Puffins Climb, Penguins Rhyme*. Gulliver.

ISBN: 0-15-200362-2

Lexile Level: AD60L

Travel to both polar regions in this book to experience the behavior and characteristics of two amazing and unique birds. Rhyming sentences and large vivid photographs.

2.2-1; 2.2-2; 2.2-3; 2.2-5

Simon, Seymour. (1995). *Sharks*. New York: HarperCollins.

ISBN: 0-06-023029-0

Lexile Level: 1050L

Examines the fascinating undersea life of sharks, examining the truths and myths of these amazing creatures. Close-up photographs enhance the informative text.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Snedden, Robert. (1995). *What Is A Reptile?*. Sierra Club.

ISBN: 0-87156-493-9

Lexile Level: N/A

Compares turtles, snakes, crocodiles, and tuaturas, describing their physical characteristics, movement, senses, defenses, and eating habits.

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Suggested Data Streaming Video

Amphibians, Fish & Reptiles

ETV Streamline SC

Visit the habitats of fish, frogs, toads, snakes, lizards, and more.

Learn how to distinguish between these three types of animals.

26:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Animal Groups: Beginning Classification

ETV Streamline SC

Vivid footage of mammals, birds, fish, amphibians, reptiles, and snakes. Discover that animals can be classified into groups by characteristics they have in common.

16:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Animal Lifecycles

ETV Streamline SC

From tadpole to frog, puppy to dog, egg to chicken, and caterpillar to butterfly; children are introduced to the stages and life cycles of animals.

14:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Animal Features and their Functions

ETV Streamline SC

Head, tail, wings, feathers, fur, and claws. Discover how these and other parts of animals help them live in different habitats.

13:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Habitats: Homes for Living Things

ETV Streamline SC

Visit a pond, a desert, a forest, a rainforest, and other habitats to discover how different plants and animals survive and thrive in these unique environments.

15:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Insect Lifecycles: Metamorphosis

ETV Streamline SC

Students learn about the entire insect lifecycle and the difference between complete and incomplete metamorphosis. Includes live footage of a painted lady butterfly, waxworm moth, silkworm, milkweed bug, and more.

15:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Junior Zoologist: Birds

ETV Streamline SC

Birds are unique because they are the only animals with feathers. Students will discover differences in feet and beaks and they will learn about extinction and endangered birds

12:38

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Junior Zoologist: Insects

ETV Streamline SC

Insects are the most populated group of all animals. Students will learn about the harmful and beneficial aspects of insects.

11:24

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Junior Zoologist: Mammals

ETV Streamline SC

Students are introduced to mammals and their characteristics: such as mothers give birth to live young and feed their babies milk and have body coverings of hair or fur.

13:00

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Magic School Bus: Butterfly and the Bog Beast

ETV Streamline SC

The class needs a new mascot for its soccer team. Phoebe suggests butterflies, but everyone thinks they're wimpy – until the Friz flutters in!

26:20

2.2-1; 2.2-2; 2.2-3; 2.2-4; 2.2-5

Career Connections**Entomologist**

Studies insects and their relation to plant and other animal life. Identifies and classifies species of insects and other allied forms such as spiders and mites. Studies insect distribution and habitat and recommends methods of controlling insect pests.

2.2

Marine Biologist

Studies and researches all the different aspects of oceans and ocean life organisms. They perform experiments to find out how the ocean affects things and research to see how they can make full use of the ocean and protect it.

2.2

Veterinarian

Provides medical attention to animals in either a general practice (primarily to pets) or specialized setting (zoo, aquarium, equine facility).

Requires a medical degree, but auxiliary careers include veterinary technician or assistant.

2.2

Wildlife Rehabilitator

Provides professional care to sick, injured, and orphaned wild animals so they can ultimately be returned to their natural habitats. A multi-faceted career that includes duties such as daily feeding of baby birds or mammals, assisting with fluid therapy or bandaging, supervising paid staff or volunteers, providing public presentations about animals and the environment, cleaning cages, capturing and transporting injured wild animals, and fundraising.

2.2

Zookeeper

Cares for wild animals in zoos or animal parks. They feed the animals, clean their living spaces, and work to keep them happy and healthy. They also answer peoples' questions and give presentations.

2.2